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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/806,952	04/05/2001	Olivier Lavergne	427.046	9561	
75	590 12/23/2002				
Bierman Muserlian and Lucas 600 Third Avenue New York, NY 10016			EXAMINER		
			DESAI, RITA J		
New Tork, IVI Toolo					
			ART UNIT	PAPER NUMBER	
			1625	//	
			DATE MAILED: 12/23/2002	"	

Please find below and/or attached an Office communication concerning this application or proceeding.

• •		Application No.	Applicant(s)		
Office Action Summary		09/806,952	LAVERGNE ET AL.		
		Examiner	Art Unit		
		RITA J. DESAI	1625		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status 1)⊠	Responsive to communication(s) filed on 29 h	March 2002			
2a)□	<u> </u>	is action is non-final.			
3)	,—				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>5,24,26 and 27</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>5,24,26 and 27</u> is/are rejected.					
	Claim(s) is/are objected to.				
8)	Claim(s) are subject to restriction and/or	r election requirement.			
Applicati	on Papers				
9)[] 7	The specification is objected to by the Examine	r.			
10) 🗌 🗆	Γhe drawing(s) filed on is/are: a)□ accep	oted or b) objected to by the Exa	miner.		
	Applicant may not request that any objection to the				
11) 🔲 🗆	The proposed drawing correction filed on	_is: a)□ approved b)□ disappro	oved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
2) D Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)		

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DETAILED ACTION

The application was suspended, but the suspension has been lifted, and action on it is as

follows .

The claims pending are 5, 24,26 and 27.

The rejection of claim 26 under 35 USC 112 has been withdrawn since applicants have

amended it.

The claims 4,5,24 and 26 rejection under 35 USC 102 e and 103 over Curran '832 has not been

withdrawn since applicants have not perfected their priority. An English translation is required.

The rejection claims 4,5 24 and 26 rejection under 35 USC 102 e and 102b and 103 over

Biggs 876 has been withdrawn since applicants have amended the claims and deleted other

substitutents.

New Grounds of Rejection

Claim Rejections - 35 USC § 103

Claims 5, 24, 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Hauseer WO 98/07727 in combination with Journal of Medicine Oliver Lavergne et al 1998

(cited in the 1449 filed 4/5/2001).

Applicants compounds are homocamptothecins (analogs of camptothecin, the ring with Oxygen

is 7 membered ring, also called heamptothecin or hCPT) with its R6 having a Si containing

substituent.

Scope and Content of Prior Art MPEP 2141.01

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WO 98/07727 teaches the camptothecins of the formula

These are camptothecins wherein the applicants R2, R3 or R4 are hydrogen or a halogen and R5 is a Si containing group.

The reference teaches that the presence of the Si containing group at that position makes them highly lipophylic.

Oliver Lavergne et al discloses and teaches that CPT and its analog hCPT show and exhibit the same properties. See whole document specifically page 5413. The reference specifically teaches that the hCPT is more effective and efficacious giving an impressive tumor growth delay see table 3 on page 5414. The data demonstrate that hCPT provides a valuable template for the preparation of new Topo I inhibitors with a high cytotoxicity towards tumor cell lines. Thus making hCPT a promising anticancer agent.

Thus teaching that CPT and hCPT are both valuable as anticancer agents.

Difference Between the Prior Art and the Claims MPEP 2141.02

Hauseer's compounds are highly lipophylic Si group containing camptothecins and not the heamptothecins as in the instant invention.

Prima Facie Obviousness Rational and Motivation MPEP 2142-2143

Oliver Lavergne et al teaches that heamptothecins is more effective and efficacious in tumor growth delay, thus making hCPT a promising new cancer agent. Hauseer teaches that Si containg groups make the CPT more lipophylic and hence more effective.

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Motivation comes from the Hauseer reference which show that the Si containing CPT compounds are highly lipophylic and more effective than the water soluble CPT or hCPT as it enhances tissue penetration and bioavailibility.

Thus one of skill in the art would be motivated to put a Si containing substituent on the hCPT to make it highly lipophylic and hence more effective since Lavergne teaches that hCPT is also or even more so a cancer treating agent.

Conclusion

The pending claims 5,24,26 and 27 are not allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RITA J. DESAI whose telephone number is 703-305-1868. The examiner can normally be reached on Monday - Friday,9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alan Rotman can be reached on 703-308-4698. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-7922 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

R.D.

December 19, 2002